

WHAT IS CLAIMED IS:

1. A color correction table generating method comprising the steps of:
having a white point of a gamut of image input signal substantially corresponded to a maximum brightness point having a same chromaticity as said white point and a maximum brightness in a gamut of an output device; and
generating a three dimensional color correction table, which correlates a color point in the gamut of the image input signal to a color point in the gamut of the image output device, in a specified color space wherein said white point of a gamut of the image input signal substantially corresponds to said maximum brightness point.
2. An image processing device executing an image processing to image input signal with referring to a three dimensional color correction table, which correlates a color point in the gamut of the image input signal to a color point in the gamut of the image output device, in a specified color space wherein a white point of a gamut of the image input signal substantially corresponds to a maximum brightness point having a same chromaticity as said white point and a maximum brightness in a gamut of an output device.
3. The image processing device as claimed in claim 2, wherein the color space is a CIELAB color space, a CIELUV color space or a Yxy color space.
4. The image processing device as claimed in claim 2, wherein the white point substantially corresponds to the maximum brightness point by scaling the gamut.
5. The image processing device as claimed in claim 2, wherein a color point

out of the gamut of the image output device and in the gamut of the image input signal is correlated to a color point in the gamut of the image output device.

6. An image processing method executing an image processing to image input signal with referring to a three dimensional color correction table, which correlates a color point in the gamut of the image input signal to a color point in the gamut of the image output device, in a specified color space wherein a white point of a gamut of the image input signal substantially corresponds to a maximum brightness point having a same chromaticity as said white point and a maximum brightness in a gamut of an output device.

7. A computer-readable medium storing a program of instructions for execution by the computer to perform an image processing to image input signal with referring to a three dimensional color correction table, which correlates a color point in the gamut of the image input signal to a color point in the gamut of the image output device, in a specified color space wherein a white point of a gamut of the image input signal substantially corresponds to a maximum brightness point having a same chromaticity as said white point and a maximum brightness in a gamut of an output device.

8. A computer-readable medium storing a three dimensional color correction table, which correlates a color point in the gamut of the image input signal to a color point in the gamut of the image output device, in a specified color space wherein a white point of a gamut of the image input signal substantially corresponds to a maximum brightness point having a same chromaticity as said white point and a maximum brightness in a gamut of an output device.

9. A projector comprising the image processing device as claimed in any one of

claims 2 to 5.

[illegible]